









METHOD AND DEVICE FOR THERMOABRASIVE SURFACE PROCESSING

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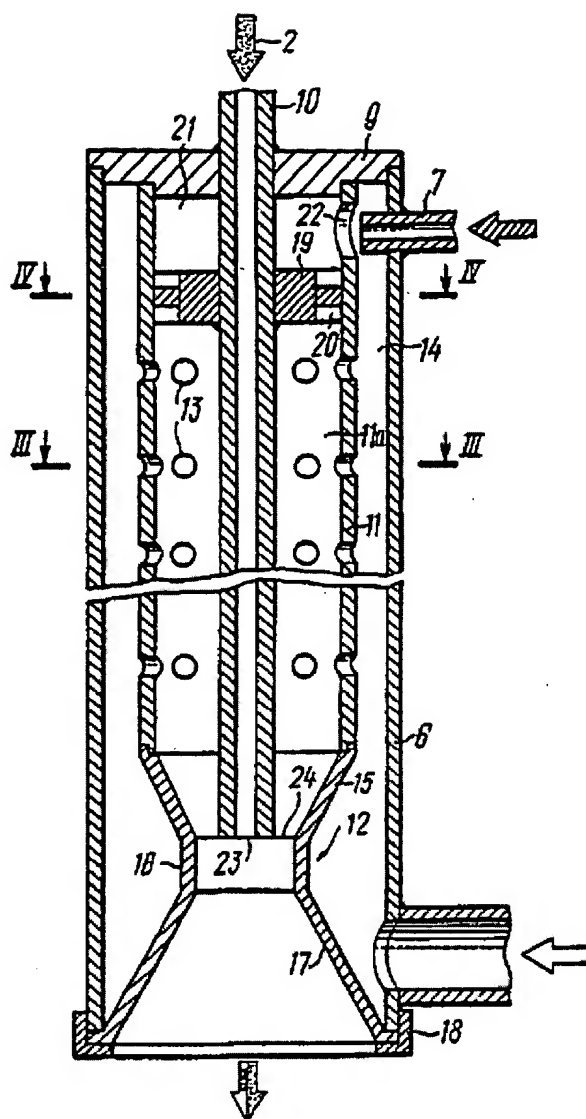
Cited documents:

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Abstract of WO8805711

A method of thermoabrasive surface processing providing for interaction between aeromixture flows (2 and 4) and combustion products within the critical cross-section of the combustion product flow with subsequent generation of a high-temperature two-component jet (5) with a jet velocity from about 250 to about 450 m/sec, which is directed on to the treated surface. In a device for thermoabrasive surface processing, the outlet cross-section (23) of a tubular element (10) is located within the critical cross-section (24) of a nozzle (12) of a combustion chamber (11) on the same side as the combustion product flow inlet. In the side wall of this combustion chamber (11) a radial opening (22) is provided which is located above a swirler (19) and coaxially to a socket (7) for feeding a liquid fuel. The relationship of the cross-sectional surface area of the opening (22) to the cross-sectional surface area of the socket (7) for feeding a liquid fuel is 2.5-3 to 1 and to the total cross-sectional surface area of the channels (20) of the swirler (19) is 1 to 1.3-1.5.



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